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Takashi Nakada, Tomoaki Tsumura, Hiroshi Nakashima

April 2006 ANSS '06: Proceedings of the 39th annual Symposium on Simulation

Publisher: IEEE Computer Society

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Unauthorized digital copying is a major concern for multi-media content providers. Since copyright owners lose control over content distribution as soon as data is decrypted or unscrambled, digital watermarking has been introduced as a complementary ...

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Keywords: block replacement attack, intra-signal collusion, self-similarities

### 3 [A secure multidimensional point inclusion protocol](#)

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Juan Ramón Troncoso-Pastoriza, Stefan Katzenbeisser, Mehmet Celik, Aweke Lemma

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Signal processing in the encrypted domain combines typical signal processing operations



and cryptographic primitives to ensure security in applications involving mutually distrusting participants. Several such applications reduce to a *multidimensional* ...

**Key words:** *computational geometry, homomorphic encryption, point inclusion, secure multiparty computation, signal processing in the encrypted domain*

#### 4 Video copy detection: a comparative study



Julien Law-To, Li Chen, Alexis Joly, Ivan Laptev, Olivier Buisson, Valerie Gouet-Brunet, Nozha Boujemaa, Fred Stentiford

July 2007 CI VR '07: Proceedings of the 6th ACM international conference on Image and video retrieval

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This paper presents a comparative study of methods for video copy detection. Different state-of-the-art techniques, using various kinds of descriptors and voting functions, are described: global video descriptors, based on spatial and temporal features; ...

**Key words:** content-based video copy detection

#### 5 A stateless approach to connection-oriented protocols



Alan Shieh, Andrew C. Myers, Emin Gün Sirer

September 2008 ACM Transactions on Computer Systems (TOCS). Volume 26 Issue 3

Publisher: ACM

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Traditional operating system interfaces and network protocol implementations force some system state to be kept on both sides of a connection. This state ties the connection to its endpoints, impedes transparent failover, permits denial-of-service attacks, ...

**Key words:** Stateless interfaces, stateless protocols

#### 6 Trustworthy 100-year digital objects: Evidence after every witness is dead



Henry M. Gladney

July 2004 ACM Transactions on Information Systems (TOIS). Volume 22 Issue 3

Publisher: ACM

Full text available: Pdf (1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together ...


#### 7 Performance directed energy management for main memory and disks



Xiaodong Li, Zhenmin Li, Yuanyuan Zhou, Sarita Adve

August 2005 ACM Transactions on Storage (TOS). Volume 1 Issue 3

Publisher: ACM

Full text available:  Pdf (705.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

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Much research has been conducted on energy management for memory and disks. Most studies use control algorithms that dynamically transition devices to low power modes after they are idle for a certain threshold period of time. The control algorithms ...

**Key words:** Disk energy management, adaptation algorithms, control algorithms, low-power design, memory energy management, multiple-power mode device, performance guarantee

## 8 Protected interactive 3D graphics via remote rendering



David Koller, Michael Turtitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Papers  
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Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, may require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated ...

**Key words:** 3D models, digital rights management, remote rendering, security

## 9 Protected interactive 3D graphics via remote rendering



David Koller, Michael Turtitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni, Roberto Scopigno  
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**Key words:** 3D models, digital rights management, remote rendering, security

## 10 High-pass quantization for mesh encoding


Olga Sorkine, Daniel Cohen-Or, Sivan Toledo  
June 2003 SGP '03: Proceedings of the 2003 Eurographics/ACM SIGGRAPH symposium on Geometry processing  
Publisher: Eurographics Association

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Any quantization introduces errors. An important question is how to suppress their visual effect. In this paper we present a new quantization method for the geometry of 3D meshes, which enables aggressive quantization without significant loss of visual ...

11 [Image annotation watermarking: nested object embedding using hypergraph model](#)

 Claus Viehauer, Maik Schott

September 2006 MM & Sec '06: Proceedings of the 8th workshop on Multimedia and security  
Publisher: ACM


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In this paper, we introduce to the special domain of image annotation watermarking, based on embedding of hierarchical data related to objects into user-selected areas on an image. In comparison to earlier methods, the main goal of the work presented ...

Key words: compression, exhaustive search, hierarchical objects, hierarchical trees, image processing, protocol, synchronization, watermarking

12 [Detecting digital audio forgeries by checking frame offsets](#)

 Rui Yang, Zhenhua Qu, Jiwu Huang

September 2008 MM & Sec '08: Proceedings of the 10th ACM workshop on Multimedia and security  
Publisher: ACM


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MP3 is the most popular compressed audio format in our daily life but it can be doctored very easily by pervasive audio editing software. Thus it is necessary to develop authentication methods for MP3. Different from JPEG compression for image, MP3 compression ...

Key words: digital audio forensics, mp3, multimedia authentication

13 [Robust IP watermarking methodologies for physical design](#)

 Andrew B. Kahng, Stefanus Mantik, Igor L. Markov, Miodrag Potkonjak, Paul Tucker, Huijuan Wang, Gregory Wolfe

May 1998 DAC '98: Proceedings of the 35th annual conference on Design automation  
Publisher: ACM


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Increasingly popular reuse-based design paradigms create a pressing need for authorship enforcement techniques that protect the intellectual property rights of designers. We develop the first intellectual property protection protocols for embedding design ...

Key words: intellectual property test, system-on-chip test, testing embedded core

14 [Sparkling life: notes on the performance capture sessions for the Lord of the Rings: the Two Towers](#)

 Remington Scott

November 2003 ACM SIGGRAPH Computer Graphics, Volume 37 Issue 4  
Publisher: ACM

Full text available:  Pdf (1.89 MB) Additional Information: [full citation](#), [cited by](#)

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## 15 Watermarking cyberspace



Hal Berghel

November 1997 Communications of the ACM, Volume 40 Issue 11

Publisher: ACM

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## 16 Robust digital image watermarking using DWT, DFT and quality based average



Eduardo Fullea, José M. Martínez

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (529.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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This paper presents a digital image watermarking system that complements a wavelet based insertion module, with a resynchronization module, and a method for selecting the watermark using an estimated-quality-based average. The proposed system has been ...

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Pramod G. Joisha, Prithviraj Banerjee

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